

## folio

UNIVERSITY OF ALBERTA

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Public-health Killam winner gives students the best the U of A has to offer

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## Industry partner injects funding into virology research

Julia Necheff

Leading-edge virology research in the Faculty of Medicine & Dentistry received another major boost Nov. 25 with a \$5 million donation from international pharmaceutical firm GlaxoSmithKline Inc., a long-time industry partner of the University of Alberta.

The contribution, "the largest endowment we have made as a company in Canada to an academic institution," is in recognition of the groundbreaking work and excellence of the virology team at the new Li Ka Shing Institute of Virology, and the U of A's rising status as a world-class centre of research and teaching, said Paul Lucas, GlaxoSmithKline Canada president and CEO.

"I've been coming to Edmonton for 35 years, and I have seen an unbelievable transformation in this university and the position it now takes in Canada's university system," Lucas said at a news conference also attended by Alberta Premier Ed Stelmach and U of A president Indira Samarasekera. "There's a lot to be proud of here."

The GSK Virology Research Support Endowment Fund will be used to help sustain the operations of the Li Ka Shing Institute, where more than two dozen researchers are studying how viruses infect cells and cause disease, how viral infections can be prevented and new ways to treat them.

Lucas called GSK's contribution an investment in the "great science that's being done here at the U of A, specifically the institute, and the researchers who are doing this great work. I really believe that [viruses] are one of the areas that is going to be a real challenge to the human race and to health-care systems around the world, and we hope the work that's being done here will transform the treatment and prevention of viral disease," he said.

GSK's relationship with the Faculty of Medicine & Dentistry goes back 23 years.

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## Shorn for a good cause



More than 50 students and staff helped raise \$25,000 for the Cross Cancer Institute during the seventh annual Engineering Head Shave Nov. 26.

## U of A grabs 4 new Canada Research Chairs

Michael Brown

The University of Alberta has been awarded four new Canada Research Chairs to go along with 10 renewals, worth a total of \$11.5 million, the federal government announced Nov. 24.

"Ten years ago, the government of Canada decided to take action against the 'brain drain' that was threatening to deplete the intellectual capital of our country," said U of A President Indira Samarasekera. "Through the creation of the Canada Research Chair program, Canadian universities were given a powerful tool to recruit and retain top talent, and there is little doubt that it has been effective."

"At the University of Alberta, the CRC program has played an integral role in our ability to develop and enrich a world-class research culture that now attracts renowned faculty members as well as the best in new faculty and student talent."

Each of the four new CRCs were named as a tier 2 CRC researcher, a title that comes with a \$500,000 award to be paid out over five years. This list

includes Duane Froese, CRC in northern environmental change; Marcello Tonelli, CRC in the optimal care of people with chronic kidney disease; Tanya Berry, CRC in physical activity promotion, and Lars-Oliver Klotz, CRC in pharmaceutical sciences.

Froese, a professor in the Department of Earth and Atmospheric Science, has spent his career focusing on understanding environmental dynamics and impact of climate on Arctic systems. This includes investigating sediment and permafrost records to look at the context of recent warming in the Western Arctic. Recently, Froese's team found permafrost within the discontinuous permafrost zone—the area where permafrost is warm, shallow and within a few degrees of 0 C—ice that

has survived for more 700,000 years. Froese says because of this longevity, there is great potential to unlock the story of climate change since the last time the Arctic was as warm, or warmer, than it is today.

"For someone interested in northern science, the U of A is one of the best places to be based at," said Froese, who is in his eighth year at the U of A. "It is a very supportive environment with a really great diversity of people across campus who are interested in northern science and geosciences in particular."

Klotz, whose CRC was the first for the Faculty of Pharmacy and Pharmaceutical Sciences, says he will use his CRC research project to investigate the mechanisms by which reactive oxygen species are generated and how, and to

what end they disrupt or stimulate cellular and inter-cellular communication pathways. Klotz explains that reactive oxygen species, including the oft-cited free radicals, have been found to destroy cellular components and affect cellular signaling processes that regulate cell growth, metabolism and adaptation. The prevailing measure to combat this destruction has been an extra supply of antioxidants, although Klotz says while they prevent interaction of reactive species with biomolecules, the presence of antioxidants impedes the signaling processes that are essential for adaptive processes to occur—such as muscle adaptation after exercise.

"The project combines pharmaceutical sciences with several disciplines, such as biochemistry/molecular biology, toxicology and nutrition research in search of novel antioxidant strategies that aim at modulating stress-induced signaling to either diminish toxic, or augment desired, effects of reactive oxygen species or any stimulus that comes with their enhanced generation," said Klotz.

“Through the creation of the Canada Research Chair program, Canadian universities were given a powerful tool to recruit and retain top talent, and there is little doubt that it has been effective.”

Indira Samarasekera

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# folio

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# U of A a destination for Iraqi students

Michael Davies-Venn

The University of Alberta will soon be hosting a portion of the 2,000 students the Iraq government is sending to universities around the world in an effort to help rebuild the Middle Eastern country.

The U of A's participation in the program comes as part of a memorandum of understanding signed Nov. 29 by Iraq's ministry of education and the university.

Iraq's director general of research and development, Mohammed A. Atiya Al-Saraj, who signed the agreement, says his government is pleased with the U of A's tradition of high-quality education and research.

"The U of A is among the excellent universities in North America, and we saw during our short visit to some of the research labs, examples of that excellence in the work being done here," said Atiya Al-Saraj. "We were pleased to see some

of the technological research capacities in chemical engineering and research on oilsands, which indicate how research is advancing at the U of A and the excellence of the university itself."

The U of A is one of four Canadian universities that are signatories to a plan by the Iraqi government to send 2,000 students from its 18 universities abroad each year for the next decade. Atiya Al-Saraj says the students will return to Iraq and participate in the reconstruction of the country, serving as faculty members and researchers. He explained the agreement also invites the U of A to help the Iraqi government establish a research environment in the Middle Eastern nation

"That can include co-operation in research and co-supervising Iraqi students," said Atiya Al-Saraj, who sees the U of A's role as a research leader in petroleum engineering as beneficial in helping develop the country's oil sector.

"There could be co-operation be-

tween the university and the oil industry in our country, and we can do a lot of work in that area, especially since our oil industry is planning to open research centres at our universities."

Britta Baron, vice-provost and associate vice-president international, said the MOU is just one example of the U of A's commitment to live up to its global responsibility.

"The U of A has lots to offer in the process of rebuilding Iraq's university system. The country has a proud tradition of academic excellence and the U of A is now collaborating with Iraq's universities to expand and promote their institutions," said Baron. "We have outstanding research capacities and services to ensure that international students succeed and make meaningful connections that will be useful when they return home to help build their country."

Iraq's cultural attaché to Canada, Mohamed Abdulkadir, echoed those views. He says visits to the U of A convinced him that the university will be a good place for students from his country.

"I am impressed with the research capacity of the U of A, particularly its chemical and petroleum engineering, for example," he said. "All of this will help in the new Iraq."

This agreement builds on earlier arrangements between the U of A and Iraq. The U of A is one of seven international universities belonging to a UNESCO initiative to rebuild Iraq's primary education structure. ■



Iraq's director general of research and development Mohammed A. Atiya Al-Saraj and U of A Provost Carl Amrhein sign a memorandum of understanding.

# Creating an education revolution in Iraq by way of Edmonton

Jamie Hanlon

A new revolution is building in Iraq, and this one has a University of Alberta connection.

The U of A is one of seven international universities—and the only North American institution—belonging to a UNESCO initiative to rebuild the country's education structure. And three professors from the U of A's Faculty of Education, George Richardson, Frank Jenkins and Bob Ritter, recently returned from a conference in Iraq where they worked with international partners on how to further engage educational change in the country.

The U of A's involvement started in 2007 when the faculty signed a memorandum of understanding to assist UNESCO in developing a teacher-training program in the war-torn country. Since then, George Richardson's International Initiatives office has seen a group of Iraqi university professors visit the U of A faculty to explore instructional design and lay the groundwork for reformatting their science program. Richardson has travelled the Middle East to meet with international colleagues to build policy on for the new Iraqi education structure.

But, interest grew in terms of the role that the U of A could play in this new educational frontier. The contribution went from providing expertise for math and sciences to developing teacher education modules that could be used in the partner institutions in Iraq and throughout that country's school system.

"We've had quite a bit of influence

“This notion of uplifting the people . . . ends up addressing some of the critical components of global citizenship, of how this university can engage with the world in a meaningful way and can have an impact.”

George Richardson

on the direction of the project. They took our expertise on how to organize around these certain concepts," said Richardson.

Perhaps the most significant change introduced to the Iraqi education system through these modules is the use of inquiry-based learning. Jenkins says that this new approach required developing an understanding of how to teach science and develop a student-centric approach that conveys the both process of science and the scientific method.

Jenkins says that one of the points he communicated to his Iraq hosts was that a parallel exists between what scientists know and how students learn. He says that the message of the importance of scientific inquiry and scientific attitudes—which contain certain characteristics such as questioning, being open-minded and non-judgmental—would work to move them towards a more democratic process as well. The next step, he says, is for the Iraqis to take the lessons they provided and make them contextually relevant and culturally topical for the country.

Richardson is optimistic that change will happen since the ministry is now looking for ways to move these tools from the university level into the country's school system directly. The

critical point, he notes, is how this new approach to knowledge and content delivery methods are received at that level, since it will have an effect on the ultimate success of the project.

"If schools are now starting to see the possibilities and be supportive when the new teachers come in with their new approaches, then the possibility for takeoff is much higher," said Richardson. "If you can get a teacher to influence students in a classroom, that influence lasts a lifetime. It doesn't take too many lifetimes like that to add up to a significant impact in rebuilding a culture, a system."

Beyond that, he notes that, aside from the need for resources, stability is also a challenge that needs to be overcome. While areas such as Kurdistan, where their conference took place, is relatively safe, he points to continued fighting and unrest in areas such as Basra and al-Anbar province as barriers to unilaterally rebuilding Iraq's education system and changing the country's political, economic and social fortunes.

"This notion of uplifting the people is one of the results of what we do," he said. "It ends up addressing some of the critical components of global citizenship, of how this university can engage with the world in a meaningful way and can have an impact." ■

# Virology funding

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Lucas and internationally respected U of A hepatitis researcher Lorne Tyrrell each recalled the early days of discovery in the late 1980s when Tyrrell began collaborating with GSK that led to the development of a landmark treatment for hepatitis B—a drug now helping millions around the globe. Then, in the 1990s, GSK made a major contribution toward the construction of a level 3 virology lab on campus, and provided funding for the Glaxo-SmithKline Chair in Virology, held by Tyrrell, and the Glaxo Heritage Research Institute of Virology—which earlier this year became the Li Ka Shing Institute of Virology, with Tyrrell as the institute's founding director.

"I firmly believe that we can only translate research—get it from the laboratory to the patient—by partnering with industry," said Philip Baker, dean of the faculty. "This money will continue to build a critical mass of expertise, second to none, of researchers discovering vaccines and treatments for some of the globe's most devastating infectious diseases like hepatitis C and tuberculosis."

Samarasekera said GSK's support over the years has been instrumental in the development of the virology research programs, and has enabled the university to leverage additional funding from agencies such as the former Alberta Heritage Fund for Medical Research, the Canadian Foundation for Innovation and Genome Canada.

"GlaxoSmithKline has transformed the learning and discovery experience of students and faculty," she said. "They continue to enhance our ability to recruit major new talent and attract external funding that will propel this institution onto a whole new level. But, most of all, GSK's gifts have and will continue to transform lives around the world."

Had it not been for the pharmaceutical company's initial investment, there would be no Li Ka Shing Institute of Virology today, university and faculty representatives stressed. Part of an international network of leading virology centres, the institute was established this year with funding from the federal and provincial governments—and a major gift (\$28 million) last April from the Li Ka Shing (Canada) Foundation and double-matching funding (\$52.5 million) from the Alberta government.

The institute also enabled the faculty to attract world-renowned clinical virologist Michael Houghton. The faculty recruited Houghton through the Canada Excellence Research Chair (CERC) program, a federal initiative aimed at bringing the world's best scientists to Canada. Houghton and his collaborators discovered the hepatitis C virus in 1989.

Lucas acknowledged the role of the Alberta government, saying the province has supported innovation by making "significant investments" and putting the right framework and policies in place. "We look forward to working with you to develop a vibrant life sciences cluster here in Alberta," he said to Premier Stelmach.

Tyrrell said the new GSK endowment will help pay for the day-to-day operation of the institute, and maintain core laboratory facilities critical to virology and immunology research. This infrastructure allows U of A scientists to conduct internationally competitive research, he said. ■



# Questions take centre stage at successful 2010 Festival of Ideas

Jamie Hanlon

The Greek philosopher Socrates encouraged his students to use questions as a means of stimulating critical thinking and illuminating ideas. So one could say that this year's Festival of Ideas would have been Socrates-approved.

The University of Alberta event, sponsored by a host of community partners including the City of Edmonton, Capital Power Corporation and the CBC, wrapped up Nov. 22 after five days of presentations that challenged people to view their world differently, provokes reflection and discussion and, mainly, be entertained.

Festival director Miki Andrejevic said presenters Jared Diamond and David Sedaris made excellent bookends to this year's event, offering up perspectives on society with both wisdom and satire. He said both performers provided content and perspective that fit perfectly with the

festival's theme of truth and lies.

Both men provided memorable, thoughtful and entertaining moments for the crowds, said Andrejevic, but for him, some of the key moments in the festival came during public performances by Ernesto Cardenal and Baba Brinkman. Cardenal's event at City Hall drew a large crowd to hear the Nicaraguan poet recite work that made attendees

"think and rethink what we know about our society," said Andrejevic.

In the case of Brinkman, it was bringing a triple threat into a public venue to explore evolution. "He's a scholar, a poet and an entertainer," said Andrejevic.

"For those who attended, it was really quite a treat."

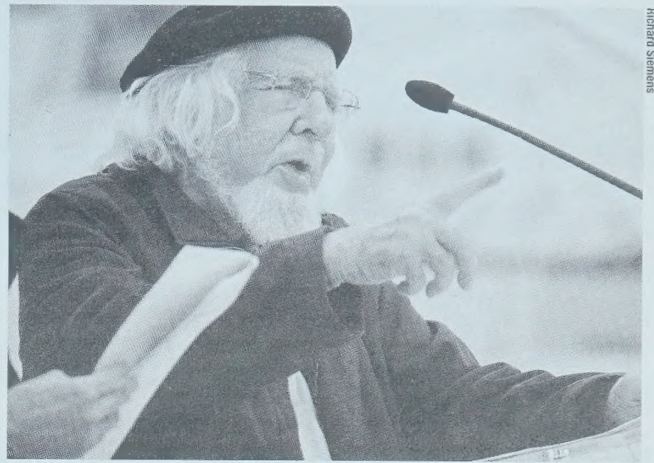
One of the most powerful moments of the festival came from Mende Nazer during Sunday afternoon's Slave and Nomad. Nazer, an author and human-rights activist who was sold into slavery as a child in Sudan, concluded the presentation with a very simple and powerful statement, "I am free, therefore, happy."

"It's quite a message sent to all of us who are struggling with our 'happiness,'" Andrejevic said. "She received a standing ovation."

Another feature of the festival was La Belle Danse. The multidisciplinary baroque performance conceived specifically for the festival, Andrejevic said that Albertans were exposed to a lively and engaging ballet performance that was pure education and discovery.

With the second incarnation of the Festival of Ideas now complete, Andrejevic says it could be summed up in three words: education, discovery and participation. He says the high attendance at the many events and the overwhelming response from attendees would indicate Edmontonians want more from the Festival of Ideas. In addition, like a true showman, he knows the true formula for putting on a show: give them what they want, leave them wanting more and make them feel like they were part of the show.

"I really want to express my gratitude and thank people for coming to the festival," said Andrejevic. "Without our attendees, we wouldn't have a festival. They're part of the festival and they played that role absolutely wonderfully." ■



Ernesto Cardenal speaks during the Festival of Ideas' Nobel Night in Canada.

Richard Siemens

**“Without our attendees, we wouldn't have a festival. They're part of the festival and they played that role absolutely wonderfully.”**

Miki Andrejevic

## CRCs

*continued from page 1*

Tonelli will focus his research on a comprehensive and innovative "chronic disease laboratory" to design and test novel management strategies to improve the health of people by integrating a knowledge-translation strategy for people with, or at risk for, chronic kidney disease. He says he is excited about the prospects of ramping up his research and gives much of the credit for his CRC to the support shown by his department.

"Our department really benefits from the Academic Alternate Relationship Plan instituted with help from Alberta Health and Wellness," said Tonelli, of the Department of Medicine's funding pool, which remunerates physicians with a predictable income based on a compensation grid that reflects years of service and training. "The A-ARP complements other programs like the CRC and protects the time of medical researchers, allowing them to devote more of their time to produce outstanding research."

Berry, a professor in the Faculty of Physical Education and Recreation, examines the dual processing of messages—conscious and automatic—that occurs in our cognitive processes, and looks at ways to deepen understanding of how best to promote health in an often overwhelming media environment, where so many different messages clamour for our attention. Berry's research has major implications on our health-care system as sedentary living has been linked to, among other things, cardiovascular disease, type 2 diabetes, obesity and even early death.

"The problem with much of the current research we have on behaviour change assumes that people are going to reflect on the messages they see," said Berry, who believes that understanding how we think about exercise at the subconscious level may unlock the secrets to helping people adopt and maintain healthy, active lifestyles.

Chris Le, professor in the Department of Public Health Sciences and the Department of Laboratory Medicine and Pathology, had his CRC in bioanalytical technology advanced to tier-1, which jumps his award to \$1.4 million, paid out over seven years. Other tier 1 renewals included engineering professor Clayton Deutsch, a CRC in resources uncertainty management; psychology professor Roger Dixon, CRC in cognition and aging; biomedical engineer Robert Burrell, CRC in nanostructured biomaterials; and math professor Vladimir Chernousov, CRC in algebra.

Tier-2 renewals include immunologist Edan Foley, CRC in innate immunity; public-health researcher Yutaka Yasui, CRC in biostatistics and epidemiologic methods; nursing professor Carole Estabrooks, CRC in knowledge translation; mechanical engineering professor Alidad Amirfathi, CRC in surface engineering; and chemical and materials engineering professor Jingli Luo, CRC in alternative fuel cells.

With this round of Canada Research Chair announcements, the U of A currently lays claim to 91 research chairs worth \$13.1 million annually. ■

## Words that launched a thousand ships

Folio Staff

As the University of Alberta celebrated its latest fall convocation at the end of November, a former prime minister, Alberta's lieutenant governor and a local humanitarian accepted honorary degrees and imparted these words of wisdom to the university's graduands:

*"In the months and years ahead, you will all acquire a new professional label... I'd like to challenge each of you to start thinking about an additional label that you'd like to wear, one that reflects how you have chosen to give back. In the end, that one will be infinitely more important and more satisfying than a simple job description."*

~ Donald Ethell, Lieutenant Governor of Alberta, who received an honorary doctor of laws degree Nov. 17.

*"And while making strides in your career and personal lives, take time to see if you notice inequity and injustice around you. If you do, figure out if there's anything you can do about it. Having a radical view on life will give you the courage and the spiritual energy required to try and create changes in your workplace and your community."*

~ Yvonne Shi-Wan Chiu, U of A alumna and champion of immigrant and refugee rights, who received an honorary doctor of laws degree Nov. 17.

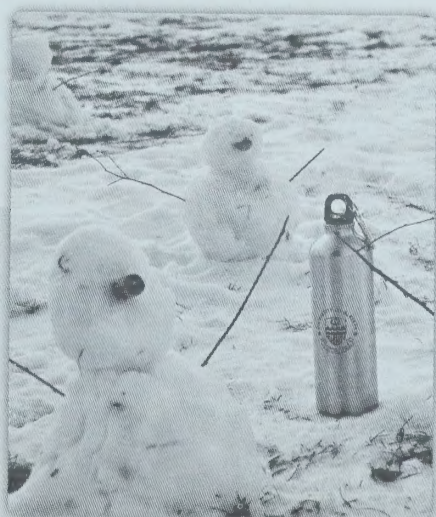
*"The world needs you. Canada needs you. Canada needs your insight. Canada needs your input into democracy. It doesn't mean that you have to run as a candidate. It doesn't mean that you have to go and work in the public service. But, at the very least, it means engaged citizenship."*

~ Kim Campbell, Canada's 19th and first female prime minister, who received an honorary doctor of laws degree Nov. 18. ■

## Are You a Winner?

Congratulations to Fan Yang, whose name was drawn as part of folio's Nov. 19 "Are You a Winner?" contest. Yang correctly identified the "There's a Heifer in Your Tank" coffee mugs in the photo as sitting in front of the cross cut of the 900-year-old Douglas fir sitting on the main floor of the Agriculture/Forestry Centre. For identifying the photo in question, Yang has won said mugs.

Up for grabs this week is a U of A-emblazoned metal water bottle. To win, simply identify where on campus the water bottle in the above photo are located. Email your correct answer to folio@exr.ualberta.ca by noon on Friday, Dec. 10, and you will be entered into the draw.



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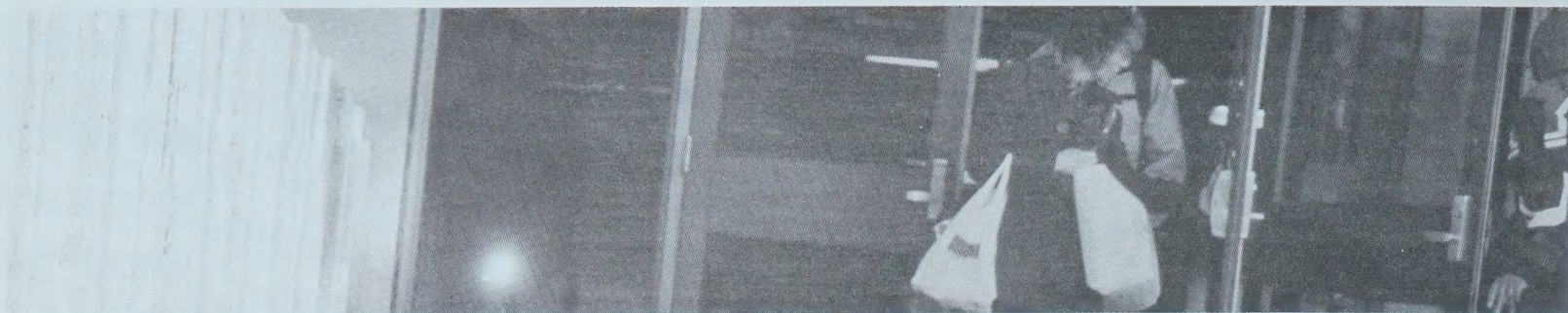
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Michael Davies-Kenn

## University 101

# Before anything, the U of A is a place

Michael Brown

Although a university's mandate is to promote research and learning, it is—before anything else—a place.

And being a place, a university needs to be built, grown, renovated, maintained and to continuously react to the formidable and changing needs of research and learning.

Such responsibility at the University of Alberta is put on the shoulders of the office of the vice-president of Facilities and Operations.

"Our primary goal is to support the university's academic and research vision," said Don Hickey, vice-president (Facilities and Operations). "It is a supportive function to meet the strategic goals that the university has identified."

"In my mind we're very important, but we're not core, so we need to respond to the needs."

The first job of the U of A's vice-president (Facilities and Operations) is to provide a link between the administration and the board of governors on all matters concerning university infrastructure and related services.

The facilities and operations portfolio is broad, covering everything from the university's ancillary services, planning and project delivery, to utilities, operations, maintenance of the university and the Office of Sustainability.

Hickey explains that ancillary services—which include ONEcard, parking services, hospitality services, real estate and commercial property management and residence services—

is unique within the institution because each of its individual parts are charged with acting as business units responsible for their own bottom line.

Hickey also oversees the university's real estate acquisitions and dispositions, as well as commercial leases of university space and spaces outside the institution that the university may lease. This division ties into the more typical part of Facilities and Operations: capital projects.

"We have to keep a business head on our

shoulders, in that we have to be efficient, effective and economic in the services that we provide," said Hickey, who is an engineering graduate of the U of A. "We owe it to the academy to do that. If we are not efficient, we're taking money away from the academy itself. We have to make sure that what we do, we are doing it as efficiently as we can."

This business unit mentality also exists for the utilities, operations and maintenance side of Hickey's portfolio. Beyond ensuring that sustainable operations, trades and buildings and grounds maintenance are as economic as possible, Facilities and Operations is charged with the operation of a break-even public utility that services the university as well as the University of Alberta Hospital, the Cross Cancer Institute, the Jubilee Auditorium and other smaller entities.

"I don't pretend that we build buildings on spec and then say, 'Who would like to occupy them?' They get built because someone has identified a need," said Hickey, who spent more than 30 years in the consulting industry designing buildings and managing

projects. "Even in tough times we have units that are growing because of research growth and enrolment. The space needs still are significant, and we have aging infrastructure."

Hickey says the U of A is by far the oldest institution in the province, representing 25 per cent of the area of post-secondary in the province, and 40 per cent or more of the deferred maintenance for post secondary.

"A lot of our world divides into short-term and long-term thinking," he said, referencing a planning function that is detailed in the university's Capital Plan, which is authored by his office and is a response to the U of A's academic and institutional research plans. "When dealing in real estate or capital projects, we're always looking at what the needs might be in five or 20 years and how we might meet those needs."

On the other end, Hickey says his department is responsible for the ongoing operations that need to be addressed every day. "Rooms and washrooms need to be cleaned every day, the grounds need to be maintained, so we have that unique combination of the necessity for long-term planning and the routine, day-to-day operations that probably impact people the most."

With the U of A's size and many complexities, Hickey says finding creative solutions to ensure seamless operation of the university infrastructure creates a challenging and gratifying work environment, especially when solutions to multiple pressures are identified.

"A lot of our world exists in a domino effect," said Hickey. "You push a balloon in and it's going to pop out somewhere else. When you don't have enough space in total, you're always looking to how you're going to accommodate current needs, not just projected needs."

"It means we need good people and people of like minds who understand that we don't control our lives necessarily." ■



Don Hickey

## the open door

# Expiration of Access Copyright license looms

Carl Amrhein  
Provost and Vice-President (Academic)

The license under which Access Copyright authorizes various uses of printed material for Canadian universities will expire Dec. 31. The Access Copyright license as it exists cannot be renewed.

This will have implications for students and faculty in terms of using required print copyright materials in the classroom/lab and in the libraries.

Under the soon expiring Access Copyright license, post-secondary institutions pay a flat fee per student of less than \$4 each, plus a royalty on each page copied, for the use of certain copyrighted material. Access Copyright is proposing a new agreement to the Copyright Board of Canada that includes a flat rate of \$45 per head for full-time equivalent students. This would increase the U of A's cost by more than \$1 million annually.

But cost isn't the only issue. Access Copyright offered to extend the current agreement only if universities agreed to be retroactively bound by a future Copyright Board decision on not only the tariffs but also on proposed new license conditions. This is unacceptable. We are genuinely concerned about some of the potential restrictions in the proposed license that may threaten our ability to use copyrighted resources in the classroom and may impinge upon other existing laws, practices or rights.

The U of A is actively supporting the Association of Universities and Colleges of Canada's work in Ottawa to protect and assert the post-secondary sector's needs and rights regarding the Access Copyright issue. The universities, via AUCC, have also commented upon pending revisions to the federal copyright laws.

The owners of copyright are taking a strong stand against those of us who are users of copyrighted material. We

want to protect the integrity of the academy as we pursue our mission to instruct students effectively. We are working to develop policies and practices that will ensure appropriate compliance but will recognize the requirements of our instructors and our students.

While the university works through a longer-term strategy for using copyrighted materials, an interim process is required to get the university through the winter and spring terms. The procedures were developed to minimize the impact to faculty and students while ensuring appropriate compliance.

Effective Jan. 1, 2011, commercial textbooks required for a course may not be placed on reserve in the library or other resource room. Other required printed materials, such as journal articles, essays or chapters, may be placed on reserve for students to read in the library. With the university's protection through Access Copyright set to expire with the agreement, these interim changes are in place to manage risk while serving the community.

There are no changes to the use of supplemental or recommended materials.

Any materials prepared for course packs or class handouts of copyrighted material will be covered under the current agreement as long as they are copied prior to Jan. 1. There may be heavier than normal volume this year, so faculty are encouraged to get materials in as soon as possible.

If handouts of copyrighted material are not photocopied before Jan. 1, copyright clearance will need to be obtained before they can be distributed. The University Copyright Office is ready to assist and answer questions.

The university's copyright website is [www.copyright.ualberta.ca/](http://www.copyright.ualberta.ca/). To ask additional questions, call Margaret Law (492-9849) or Cindy Paul (492-0151), or you can email [copyright@ualberta.ca](mailto:copyright@ualberta.ca). ■

## Child Study Centre

University of Alberta ~ Faculty of Education

### Junior Kindergarten (Education Bldg)

Jr. Kindergarten registration for 2011/2012 begins **December 1, 2010**

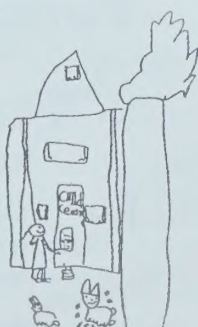
- 2011/2012 pre-school program for children between the ages of 3.5 and 5 (age of 4 by February 28, 2012).
- Inquiry-based with opportunities for in-depth investigation of children's ideas, questions, and interests
- music, art, dramatic play, creative movement, and physical education are important components of this exemplary program

For more information on registration for Jr. Kindergarten, visit our website, email, or call 780.492.7341.

### Kindergarten to Grade 6 (Garneau School)

Kindergarten to Grade 6 registration for 2011/2012 begins **March 1, 2011**.

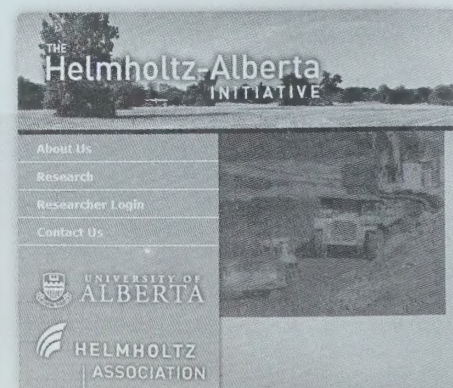
For more information on Kindergarten to Grade 6, visit our website, email, or call Garneau at 780.433.1390.



## surf city

A major partnership between the U of A and a network of German research centres is now a lot more visible with the launch of a new website ([www.helmholtz Alberta.ca](http://www.helmholtz Alberta.ca)), informing the public on the initiative's progress and allowing researchers to collaborate online. While research to develop sustainability technologies for the oilsands has been going full bore for months now, the official site of the Helmholtz Alberta Initiative went live Nov. 25, celebrating "an equal partnership between the German and U of A sides," says Stefan Scherer, managing director of Helmholtz Alberta Initiative at the U of A.

A series of 12 videos featuring team co-leaders in the six currently active research themes—bitumen and lignite upgrading,



carbon capture, carbon storage, geothermal energy, sustainable oilsands water management and mine site reclamation and landscape development—will appear roughly once every month on the site.

[www.childstudycentre.ualberta.ca](http://www.childstudycentre.ualberta.ca)  
[childstudycentre@ualberta.ca](mailto:childstudycentre@ualberta.ca)



# Tendency towards obesity starts with preschoolers

Jane Hurly

When it comes to understanding where tendencies to being overweight or obese develop, you have to begin with the very young, says behavioural scientist John Spence.

His research, the first of its kind to look at North American kids, and published in the *International Journal of Pediatric Obesity*, examined four- and five-year olds' avoidance or approach behaviours to food and their relationship with body weight.

What he's found may help to unlock the causes of obesity and what we can do to prevent a condition in Canada where, alarmingly, 26 per cent of 2 to 17 year olds are overweight or obese.

Spence and his team recruited 1,730 Canadian children into the study—an equal mix of boys and girls, and four and five year-olds. Kids were classified according to body weight status, and parents were asked to complete the UK-developed Children's Eating Behaviour Questionnaire, which has been used in European studies to establish the relationship between food behaviours and body weight in children.

Parents were given a list of statements relating to how their children responded to food—for example, "My child loves food," or "My child eats more when worried"—and asked if or to what extent the behaviour occurred.

The results of the two-year study were in line with what Spence had anticipated. He found significant differences between the children in different weight status groups for food responsiveness, emotional over-eating, enjoyment of food, satiety responsiveness, slowness in eating, and food fussiness.

"It does appear that children, not surprisingly, who are demonstrating approach behaviours to food (eating when upset, or eating when bored, for example) are going to be more overweight, whereas children who are demonstrating avoidance behaviours (such as fussy or slow eating) are more likely to be underweight. But the issue now is, how do children develop these approach or avoidance tendencies to food?" says Spence.

"This model suggests that to some extent this is influenced by the household environment where the parents may be rewarding children for certain types of behaviours. It would suggest that there is some dynamic in the household that is leading children to be more approach or avoidant in relation to food."

Spence says the results, which show clear linear relationships across the body-weight groups, bode well for his follow-up research, now in progress.

"If we are seeing associations between where children live and play, if there are associations between the environment and the weight status of the child then we have to try and figure out how that environment influences that child," says Spence.

"Is it exposure to food or prevention or promotion of physical activity?

Is it the way they interact with their food as shaped by their environment? This is more of a household variable than one would expect, so is the child being rewarded or punished in relation to their food and is that then related to their weight status? Is there education we can be providing to parents?

"These have potential intervention implications, because if we can identify this and understand what the causes of approach and avoidance behaviours are, we can identify what we can intervene on."

Spence has begun a longitudinal study following the children from the original study who are now seven and eight year-olds. This time researchers will probe deeper and with confidence, knowing their work is grounded in a solid foundation of findings consistent with

European studies that have used the CBEQ to establish these associations between food behaviours and body weight.

"Now we'll be situating (our research) in a larger framework with more variables, and we'll be looking to see how some of these work together," says Spence. "We'll look to see if, in children who are more approach-oriented to food, we are seeing more food being consumed, and are they consuming some of the 'bad' food."

Spence says he expects governments to step in with policies once researchers know more. "Now that we've established the associations, we need to know how to change things, and if we change things how do we implement those in policy and affect populations." ■

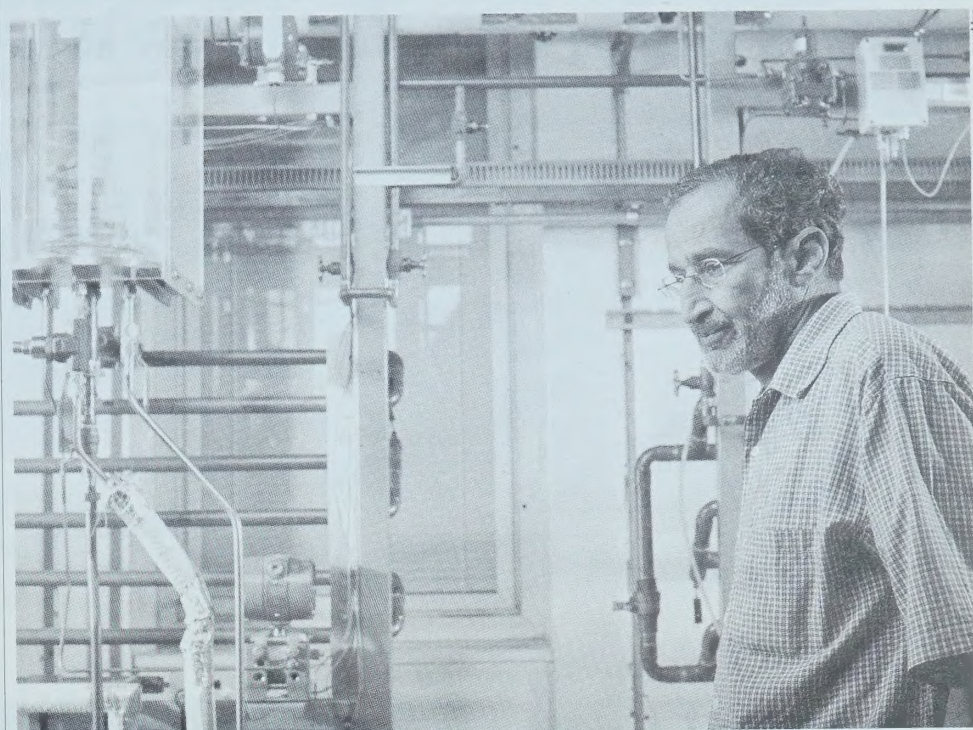
**“But the issue now is, how do children develop these approach or avoidance tendencies to food?”**

John Spence



John Spence

# Oilsands innovation keeps oil out of tailings ponds



Sirish Shah, professor in the Department of Chemical and Materials Engineering, along with fellow collaborator Phanindra Jampana, developed an image sensor to help reduce environmental impacts while improving bitumen recovery and revenues.

Richard Cairney

Using digital cameras and a sophisticated algorithm, Faculty of Engineering researchers have improved the efficiency of an oilsands process and lessened environmental impacts.

The team developed an image sensor that helps reduce the environmental impacts while improving bitumen recovery and revenues by cutting the amount of bitumen inadvertently flowing into tailings ponds by 50 per cent.

Sirish Shah, a professor in the Department of Chemical and Materials Engineering, and Phanindra Jampana, who at the time of the research was working on his PhD under Shah's supervision, pioneered the new approach in collaboration with Suncor Energy Inc. and Edmonton-based software firm Matrimon Inc.

"This issue was thrown to us as a challenge," said Shah, who holds the NSERC-Matrimon-Suncor-iCORE Senior Industrial Research Chair in Computer Process Control.

Bitumen mined from the oilsands

is placed into huge vessels called separation cells and mixed with hot water. The bitumen and air form a frothy layer that floats on the surface of the water. Skimmers remove the froth to process into oil; the sands and clays, in the bottom layers that form the "middlings and tailings," sink and are sent to the tailings pond.

"Suncor had a problem measuring the interface between bitumen froth and the middlings in their separation tanks. They'd tried so many different sensors and measuring devices, but none of these sensors had worked consistently and reliably with the result that regulation of the interface level at optimum levels was not possible."

Capturing the froth is key to full recovery of the oil and protecting the environment, because any froth missed will end up in a tailings pond as extraction waste. However, the large volumes of bitumen, sand and water roil in the separation cell, making the surface turbulent and difficult to measure and separate.

Typically, companies use sensors

to guide operators, who manually control pumps to keep the surface as calm as possible. With the new technique, cameras monitor the tank through portholes, focusing on the interface between the foam and water. The information is fed into a computer that controls the pump. The whole process is driven by a complex algorithm to adjust the pumps in real time.

The new technology resulted in recovery of an additional 1,600 barrels of bitumen per day from one tank at Suncor. That's 50-per-cent less bitumen going into tailings ponds. And at \$50 per barrel, it means approximately \$30 million in additional annual revenue to Suncor. Because of the success of the technology, similar sensors have been implemented for use in two other separation tanks.

Shah and Jampana won a prestigious ASTech Award from the Alberta Science and Technology Leadership Foundation in the category for Innovation in Oilsands Research sponsored by Syncrude Canada Ltd Nov. 12. ■

# Pharmacists in primary-care settings benefit patients

Bev Betkowski

Though most of us are used to seeing our pharmacists behind the counter at our neighbourhood drugstores, Scot Simpson sees a more dynamic place for them—right in doctors' offices.

Simpson, an associate professor in the University of Alberta's Faculty of Pharmacy and Pharmaceutical Sciences, has just published a study showing that adding pharmacists to the primary-care team in family medicine clinics may help patients with chronic diseases such as diabetes better manage associated risk factors, such as high blood pressure.

The findings hold potential for improving health care at the patient level and lowering total costs to the medical system.

"Pharmacists can play a more active role in primary care and community clinics," said Simpson. "We've already been actively collaborating on health-care teams for years in hospitals, so it makes sense to also join the primary care teams in medical clinics."

The study, conducted in five Edmonton clinics, showed that the blood pressure of patients with Type 2 diabetes dropped significantly when pharmacists were included in the on-site clinical examination and consulting process. Among 153 patients whose hypertension was inadequately controlled at the beginning of the study, the 82 who had advice from a pharmacist as part of a medical team were more likely to reach blood-pressure treatment targets recommended by the Canadian Diabetes Association.

As well, the study showed that with input from pharmacists, the predicted 10-year risk of cardiovascular disease for patients with Type 2 diabetes will drop by three per cent.

Placing pharmacists in the doctor's office instead of in a more traditional role at the neighbourhood pharmacy allows for a more collaborative frontline approach to medication management in primary care, Simpson said.

"The doctors, nurses and pharmacists can directly discuss issues specific to any one patient, and

**“We've already been actively collaborating on health-care teams for years in hospitals, so it makes sense to also join the primary care teams in medical clinics.”**

Scott Simpson

by doing so, have the best outcome for the patient," Simpson said. "The team effort really allows for more customized care of the patient."

High blood pressure and other cardiovascular risk factors are common in people with diabetes, so effective management of medications is key to reducing the risk of heart attack and stroke, Simpson added.

The results were reported online recently by the journal *Diabetes Care*. ■



## A little off the top



U of A Provost Carl Amrhein provided one of the more than 50 heads that were shaved during the seventh annual Engineering Head Shave Nov. 26. Amrhein and Students' Union President Nick Dehod raised almost \$10,000 for cancer patients.

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### Patient testimonials:

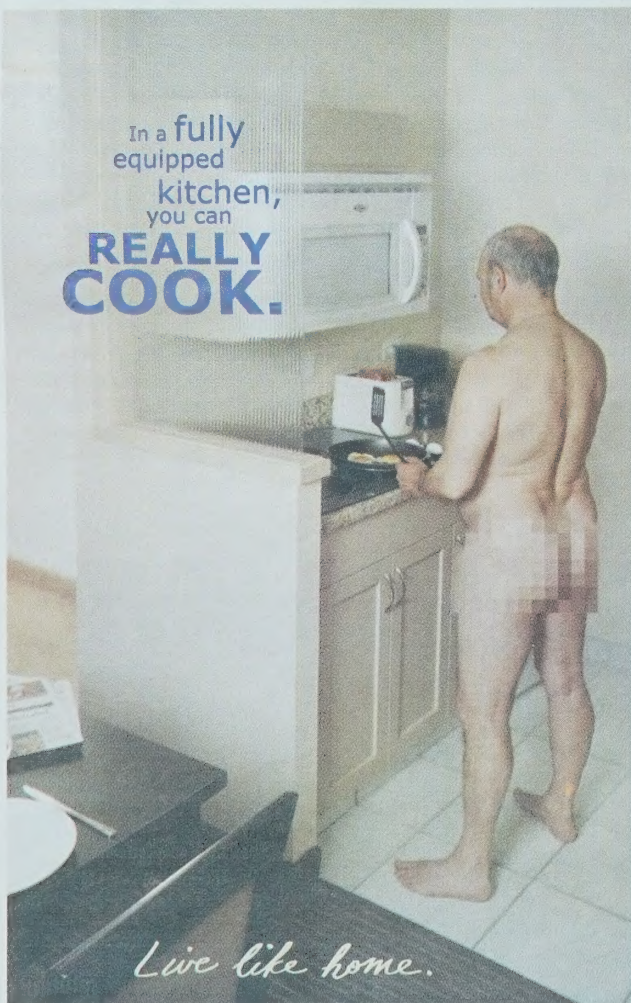
- 1) "Nearly half of our staff has been to your clinic." - Staff member at the Faculty of Medicine & Dentistry
- 2) "You helped me lose 35 pounds and my blood pressure has dropped significantly. My neck and shoulder pain, which I've had for more than 20 years, is also gone." - Senior staff member at the U of A
- 3) "In two months of treatment, Dr. He has helped alleviate pain from sciatica, disc bulges and inoperable spinal cysts." - Senior staff member at the U of A

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# Researchers celebrate a possible glimpse into the secrets of the Big Bang

Brian Murphy

University of Alberta particle physics researchers are celebrating a possible breakthrough in divining the secrets of the Big Bang. The big break came at the Large Hadron Collider near Geneva, Switzerland.

"I had just returned from the LHC when word came that we got a glimpse of one of the first steps in the eventual creation of the universe," said U of A physicist Roger Moore.

Moore was part of the LHC's international research team that crashed lead ions together creating a super heated gas called a quark-gluon plasma. The plasma is believed to contain the basic building blocks of matter. Everything in the visible universe, including all life, is made of

matter. The Big Bang was a sudden release of energy credited with creating matter—the stars, the universe, us.

Moore says it all happened in a trillionth of a second following the Big Bang.

"When a gas is superheated it becomes plasma, like the sun, and when plasma is further heated to trillions of degrees it becomes a quark-gluon plasma," said Moore. "If further analysis of the LHC data proves a quark-gluon plasma was created, we've discovered a new state of matter."

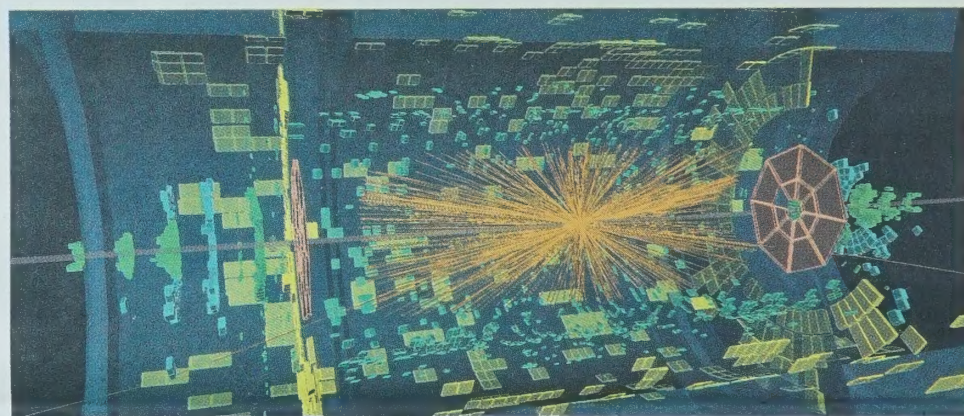
Moore adds he believes quark-gluon plasma was one of the first stages in the evolution of matter following the Big Bang. "Positively identifying and understanding the role of quark-gluon plasma is a very important step."

Moore believes that finding possible new evidence of a quark-gluon plasma

shows that LHC research is moving forward. Moore's U of A colleagues Jim Pinfold and Doug Gingrich were also involved in the design of the ATLAS detector.

"The LHC has had some setbacks, but this breakthrough is good news and in the New Year, when the collider is operating at full power, we'll learn even more about how we (life) got here."

Evidence of quark-gluon plasma was gathered from the collision of lead ions sent racing around the LHC, which is a circular tube, 27 kilometres in circumference, buried underground on the border between Switzerland and France. Debris from the crashing ions was picked up by a specialized detector. Moore, Pinfold and Gingrich were part of the design and construction team for the detector that was given the name Atlas.



This image shows beams of lead ions colliding, scattering particles. Their signals are measured by the cylindrical ATLAS detector.

## Researchers look to limit spread of HIV by battling depression

Bev Betkowski

Treating depression may be a crucial step in stopping risky sexual behavior and even the spread of HIV, says University of Alberta researcher Ian Colman.

A strong link between depression and subsequent risky sexual behaviours such as improper condom use, transactional sex and relationship violence among young people in South Africa has been discovered by Colman and Mzikazi Nduna, researchers in the U of A's School of Public Health.

"The findings of this study could give doctors an important but overlooked tool in dealing with the HIV epidemic not only in South Africa, but across the globe," said Colman, an assistant professor of epidemiology. "Psychological factors are often neglected in HIV research, and as researchers, we need to deepen our understanding of the role of mental health in the HIV epidemic," Colman said.

The researchers felt it was important to investigate links between depression and HIV, especially in low-to middle-income nations like South Africa, where psychological distress is thought to be common. The results of their study, conducted in Eastern Cape Province, confirmed that depression

is widespread among young South Africans, and could be making a significant contribution towards the HIV epidemic there.

As well, Colman believes that depression could be contributing to risky sexual behaviours around the world, and that preventing or treating it may reduce the global burden of sexually transmitted diseases, including HIV and AIDS.

The study encompassed 1,002 females and 976 males between the ages of 15 and 26, who were surveyed twice, once in 2002 and again a year later.

The research found that 21.1 per cent of women and 13.6 per cent of men reported symptoms of depression. Depressed women were more likely to be in controlling relationships, to have a partner who was several years older, and to have experienced sexual violence. Men with depressed symptoms were more likely to have had three or more lifetime partners, experienced transactional sex and committed rape.

All of these behaviours are considered to put young women and men at risk for sexually transmitted HIV.

Based on their findings, Colman and Nduna, who was a visiting professor at the U of A during the study, recommend routine screening for prevention, diagnosis and management

of depression among youth as a means to reducing risky sexual behaviours and, in turn, HIV risk in South Africa.

"Access to mental-health services for young people remains elusive as resources are directed to more pressing conditions such as teenage pregnancy and HIV prevention," Nduna said. The researchers see potential for blending depression prevention into current sexual and reproductive health clinic services.

"Clearly we could achieve better success in our prevention efforts if they are delivered to clients who are in a healthy state of psychological well-being," added Colman. "People who aren't feeling good about themselves are less likely to be concerned about important preventative health measures."

Colman hopes the findings will ultimately help slow the spread of HIV by offering young people mental health treatment that will ease their depression and subsequently stem destructive sexual risk-taking.

The research appears in the current issue of the *Journal of the International Aids Society*.

**"The findings of this study could give doctors an important but overlooked tool in dealing the HIV epidemic."**

Ian Colman



Ian Colman



teaching &amp; learning, learning &amp; teaching

# Engineering design course has environmentally friendly exam

Richard Cairney

As the automotive industry explores alternative-energy vehicles, mechanical engineering students faced the same challenge in a design course with a unique exam.

Students in Marc Secanell's Mechanical Design course were given the task of designing and building a robotic car and then competing against other student teams to see who built the most energy-efficient vehicle. Students have access to advice and training from the department's technicians and professors.

"It has been my favourite course this semester because you get to apply what you've learned," said student Janelle Romanchuk. "I was talking to my friends

about it and they were saying 'You get to just go into the shop and make stuff?' It's pretty cool. We're doing things I've never done before."

Working in teams, the students were required to build electric vehicles and complete tests to determine energy use in "city" and "highway" driving conditions on an indoor track.

Roberta Hunt, who operated her team's car in the exam, did a lot of the calculations in the design stage but the team learned that in some instances building something according to plan isn't always possible. The team needed to tweak their steering design.

"This course gives you an idea of what goes on beyond design, in the manufacturing stage," said Hunt, who steered the team's vehicle to a

respectable placing.

Other teams had the same challenge. Daryn Curilla, whose team's vehicle held a solid lead in the 'highway' portion of the exam, said the group he worked with ran into a brick wall when it came time to build the vehicle they had planned.

"We had a problem with our gear box—the computer model worked great but it was impossible to build."

In both cases teams adapted and improvised and overcame the unforeseen challenges.

"This teaches students the trial and error of design," said Secanell. "It's an interesting course because they still don't have all the fundamentals of engineering but they do get hands-on experience." ■



Marc Secanell (left) watches one of his students race a robotic car.

## staff spotlight

### Chem tech a catalyst for department happiness

Michael Brown

While Marcel Munroe works daily with catalysts, being called one is a first for the organic chemistry store technician.

In being selected for a University of Alberta Support Staff Recognition Award handed out Nov. 15, Munroe was described by his colleagues as a "catalyst for a healthier, happier department," a calming influence, accommodating and positive.



Marcel Munroe

Munroe is quick to deflect the praise, explaining his demeanor at work is strictly a byproduct of working in such a great environment.

"I like the energy at the U of A," said Munroe, who has worked in the Department of Chemistry for three years. "It is always high energy when school's in, it's high energy when school's out and the energy is always changing with new students and new faces to see."

"The store group—there's seven of us—is pretty tight knit, and everybody is really friendly. It is a great group to work for and I couldn't ask for better than that's for sure."

Munroe says his primary role is to set up all the solutions and get together all the chemicals that the organic chemistry undergraduate labs need. "We have to make the solutions, dispense various things into sample vials for each student and then, during their lab, if they break any glass or have a problem with their (solutions), the students can come to us so they're not stuck unable to finish the experiment."

Monroe says a chemistry lab can be a stressful place for undergraduates as their grades depend on their accuracy.

This means when glass breaks or a chemical spills, students who come to him looking for help can be pretty upset.

"To make it so they understand it is not a big deal, instead of a buzzer to call us to the store window, we have a rubber chicken," said Monroe. "They come, they're upset and they have to squeeze this rubber chicken, which inevitably draws a few laughs. I think it lightens the mood and shows the student that it is not the end of the world." ■

#### U of A's Annual Recognition Awards

##### Staff Awards

- Pak Chow: Lab technician with renewable resources
- Delphi Kozmeniuk: Lister Residence Administrator
- Judith Odhuno-Were: International admissions supervisor

##### APO Awards

- Trevor Buckle: Faculty of Arts, Undergraduate Student Services
- Mary Paul: SAO, Office of the Vice-President (Facilities and Operations)

##### Librarian award

- Marlene Dorgan: U of A Libraries

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# The best begets the best according to public-health Killam winner

Andrea Lauder & Michael Brown

Having three Canada Research Chairs lecturing during the same class doesn't happen all the time, but if it is going to happen, it's going to happen at the University of Alberta.

"The School of Public Health has three Canada Research Chairs, and all three of us were up in front of a class of PhDs talking about research methods in general. They just soak it all up, but I don't think the students realized the benefit of that," said Jeff Johnson, professor in the School of Public Health and CRC in diabetes health outcomes. "The U of A is definitely one of the leading research universities in Canada, so it definitely has research-expertise exposure to draw on."

It's that continual exposure to the cutting edge of research that Johnson affords his students, along with an enviable research resume that helped him win a 2010 Killam Annual Professorship. The award is based on scholarly activities of the applicant that include teaching, research, and service to the community.

Johnson's program of research in diabetes health outcomes is known globally thanks in part to his knowing more than 180 peer-reviewed journal articles to date. He continues to attract ongoing competitive research funding from agencies, including the Canadian Institutes for Health Research, Alberta Innovates – Health Solutions and the Canadian Diabetes Association.

Johnson is internationally recognized for his work in health outcomes research, particularly in diabetes surveillance and the assessment of the quality and efficiency of health care for type-2 diabetes. While the high-achieving research side of Johnson is well documented, there is also a down-to-earth side that may be less well known to some. This side is most apparent in his deep connection to teaching and mentoring students.

"When I started grad school I really wanted to be a teacher," said Johnson, whose father is an academic and, he says,

one of his key mentors. "I'm very proud of my mentoring record with students, and I find teaching really fulfilling."

Johnson teaches primarily graduate students and says it is easy to bring research into the classroom because that



Jeff Johnson

is where their heads are at. "I don't talk specifically about my research, just my experiences of being a researcher, and how they have to have an open mind," he said. "That's so rewarding because PhD students are just so keen."

Johnson began teaching at the University of Saskatchewan, lecturing on diabetes for the College of Pharmacy and Nutrition. Now, through his research group, the Alliance for Canadian Health Outcomes Research in Diabetes, Johnson continues to build upon diabetes research success and is creating a supportive work environment for the students he mentors.

"The real benefit of having leading researchers teaching students at any level is just being on the front edge and expos-

**"[Having leading researchers teaching students at any level] keeps the students sharp and keeps the faculty sharp."**

Jeff Johnson

ing students to the newest methods or theories or the latest literature," he said. "It keeps the student sharp and keeps faculty sharp."

Johnson's dedication to the student experience has meant that all of the students he has supervised (seven master's students, seven PhD students and two post-doctoral fellows) have received external trainee scholarships or fellowships.

Samantha Bowker, a recent graduate, had the opportunity to work with Johnson before he supervised her during her PhD studies. "I don't know if it was necessarily easier to go from a working relationship to the student/supervisor relationship," said Bowker. "In fact, I think it was a bit harder. Jeff has high expectations when you are a student with him."

However, with the high expectations also came great rewards, remembers

Bowker. "We are really given the most supportive and rich research environment during our studies. I really felt that the opportunities provided to me in my PhD were outstanding, and I am very thankful for having had those opportunities. I learned a lot from Jeff and we get along really well on projects. He is a very good mentor who is always approachable."

Johnson's students speak highly of him and his teaching style, consistently giving him glowing reviews. "I have high expectations of my students, but I am not unrealistic," says Johnson. "I like to be organized with my courses and make myself available to meet with students who are looking for deeper understanding or feedback."

"Contrary to what people think, I do occasionally say 'no' to things," says Johnson. "But, when it comes to student requests, I rarely refuse to help." ■

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## 2011-2012 Killam Annual Professorships

Applications are invited for the 2011-2012 Killam Annual Professorships. All regular, continuing, full-time academic faculty members who are not on leave during 2011-2012 are eligible to apply. Deans, Department Chairs and other senior University administrators with personnel responsibilities shall not normally be eligible for Killam Annual Professorships. Associate Deans and Associate Department Chairs are eligible providing they do not have personnel responsibilities. Up to eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two Professorships shall be awarded to staff members in any one faculty in any given year. Each Killam Annual Professor shall be presented with a \$3,500 prize and a commemorative plaque. The duties of Killam Annual Professors shall not be changed from those that they regularly perform as academic staff members.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years as evidenced by any or all of research publications, creative activities, presented papers, supervision of graduate students, and courses taught. The secondary criterion shall be a record of substantial contributions to the community outside the University, above and beyond what is usually expected of a professor, as evidenced by community involvement normally directly linked to the applicant's University responsibilities and activities. However, other forms of community involvement will be considered, especially, but not exclusively, where the applicant's discipline does not readily lend itself to making community contributions, and also where the university's reputation is clearly enhanced by the applicant's contributions.

Awards are tenable for twelve months commencing July 1, 2011. The completed application must be received at the Office of the Vice-President (Research), 1-20 University Hall, by 4:30 p.m., Friday, Feb. 18, 2011. The awardees shall be announced by early May, and they will be formally recognized at the Killam Luncheon in the fall of 2011.

Applications and further details are available on the home page of the Vice-President (Research) at <http://www.research.ualberta.ca>.

Please contact Annette Kujda, administrative officer, Office of the Vice-President (Research) at extension 2-8342 or email [annette.kujda@ualberta.ca](mailto:annette.kujda@ualberta.ca) if you have any questions.

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## Parkland Institute shines light on public-policy issues

Jamie Hanlon

Canada, in general, and specifically, Alberta, continues to evolve in many ways: socially, economically, politically. However, what happens when this change is not always to the benefit of the people? Who will speak for or to citizens about this change and the need for public understanding and engagement on these important issues?

Fundamentally, those questions could be answered by the work undertaken by the University of Alberta's Parkland Institute. Gordon Laxer, co-founder and director of the institute, says the catalyst for the establishment back in 1996 was an absence of any credible political opposition following the 1993 provincial election. He says the sitting Liberals at that time seemed to have abandoned their traditional left-of-centre policies for an almost ultra-conservative direction for the province.

"There was a one-party or group-think mentality (in the legislature)," he said. "We thought there should be a diversity of voices out there. People were really afraid to say any criticism of government or anything that was against government policy. We thought that was a very unhealthy situation in a democracy."

A non-partisan body within the university's Faculty of Arts, the institute is a network of researchers whose goal is to examine policies and issues of international, national and provincial importance. This goal feeds a second, and arguably more important goal, says Laxer, public education.

"We want to do well-researched public policy reports that would open up debate on a whole range of issues," said Laxer. "You need a debate whenever you've got a group of people in power."

The institute uses a variety of means to disseminate its research to the public, including reports, books and confer-

**"People were really afraid to say any criticism of government or anything that was against government policy. We thought that was a very unhealthy situation in a democracy."**

Gordon Laxer

ences. This year's 14th annual fall conference happened last weekend and entitled *Rewriting a Country: Towards a Just and Peaceful Society*. True to its goals, the institute looked at how Canada's values and its role, both international and domestic, have changed.

Ricardo Acuna, the institute's executive director, says conferences are one means by which these goals can be accomplished in order to "popularize the research and give it a very practical context." Regardless of means, the aim of the institute's public education mission is the same.

"The ultimate hope is engaged citizenry – for people to come away with an understanding of their need to be engaged, because there is a gap between what I value as a Canadian and what is being done on my behalf," said Acuna. "As a citizen, I need to play a role in trying to bring those policies and those actions closer to my values, whether that involves a letter to the editor, talking to MPs or, in a few cases, protests and campaigns."

In terms of current issues that affect Canadians, Laxer says a changing image of Canada's vision and values is incongruous with the wishes of ordinary Canadians. Citing examples of everything from climate change to the war in Afghanistan to changes to the citizenship act, Laxer says the elite in Canada and the federal government have been moving the country in a direction many Canadians don't seem to want to go.

Laxer notes that there is a disconnect between a seemingly elitist view of what Canada is or should be and the

wishes of ordinary Canadians.

"We very much believe in the public-education side," he said. "There are citizens out there who need to be informed on the issues."

The conference is one means by which the institute aims to spark public-policy debates; Laxer says that getting the reports and ideas to the public is another. He said that the institute sends reports to sitting governments as a means of influencing political will.

He says government policy indicates that policymakers are listening closely (or at least paying attention) to what the institute's people are saying. Laxer says reports on issues such as oil and gas royalty rates or the privatization of Epcor seem to have been catalysts for changes in government plans at different levels. Given the size of the institute, he says those results are admirable.

"I think in many ways we punch above our weight," said Laxer.

Maintaining a public presence and profile, engaging discussions, opening dialogue and giving a voice to Albertans' concerns on public-policy issues is ultimately the *raison d'être* of the Parkland Institute, says Laxer. Being a centre of reports and papers that serve little but to line a résumé is not what a public-policy institute is about, he says.

"You should be out there hammering a debate, and the best ideas should win," said Laxer. "If some other institute or other groups come out with some other ideas, well, let's have a debate on this thing."

"It's not publish or perish, it's go public or perish—publicize or perish." ■



## Software that saves lives

Nadia Anderson

In an emergency, timing is everything. For Darkhorse Analytics—a spinoff from the Alberta School of Business' Centre for Excellence in Operations—its recent license with TEC Edmonton provides exclusive access to the programming code needed to analyze and optimize data for emergency deployment.

The license also gives Darkhorse the first right to negotiate any future intellectual property discoveries from Armann Ingolfsson, director of the CEO, in the area of emergency services.

"It is very rewarding to see the results of our academic work being used in practice, to help emergency service planners," Ingolfsson said.

The CEO applies emerging techniques to complex and quantitative problems such as facility location, network design, vehicle routing, produc-

tion planning, or inventory management. Through their research and analysis, businesses can save thousands or even millions of dollars.

Dan Haight, a former CEO employee and a founding partner of Darkhorse, said the software gives

**"Our goal is to mitigate risk. In this line of work that risk means loss of life."**

Dan Haight

emergency responders greater independence, which decreases response times.

"What's great about our software is that it's user friendly; you don't need an analyst to run it," Haight said. "We

work with emergency professionals to develop planning tools to diagnose how to react. Our goal is to mitigate risk. In this line of work that risk means loss of life."

Darkhorse has worked with municipalities across Canada, from Edmonton to the Maritimes.

"As a finalist in the TEC Venture-Prize Business Plan competition, and now a technology licensee, Darkhorse Analytics is a perfect example of what commercialization is all about, moving technologies into the marketplace," said Chris Lumb, CEO of TEC Edmonton. "This type of technology is the new age of emergency planning, replacing the modeling of the 60s and 70s that most municipalities still use today."

TEC Edmonton's commercialization journey with Darkhorse continues as Shaheel Hooda, TEC Executive-in-Residence, helps the company take its

**TEC**  
TEC Edmonton

business to new markets.

Through business coaching and developing a marketing strategy to accelerate the growth of the company as well as enter the United States, Hooda, a former software CEO and Harvard MBA, has previously advised Fortune 500 companies.

"With Shaheel's business experience, he challenges us to look at our five-year plan rather than the next six months," Haight said. "Balancing our needs today with our long-term objectives is definitely a challenge for a startup, but with the help of TEC Edmonton, we're on the right path." ■

## TLEF to help shift medical education away from traditional teaching methods

Ken Mathewson

As educational techniques evolve, the traditional chalkboard and textbook methods of teaching are rapidly becoming a thing of the past. Luckily, educators within the Faculty of Medicine & Dentistry are taking steps to ensure that the University of Alberta maintains its innovative edge.

Shelley Ross, along with colleagues Mike Donoff, Paul Humphries and collaborator Cheryl Poth, recently received a Teaching and Learning Enhancement Fund grant for their work in

implementing and analyzing the Competency Based Achievement System within the Family Medicine Residency Program.

The program attempts to shift the learning environment from the traditional "one size fits all" approach, to an individualized feedback-based, learner-driven system that allows students to focus their efforts on areas where they need the most improvement.

"There's a worldwide movement to shift medical education from the time-based system to a competency based system," said Ross. "Our goal is to give students the tools

for guided self-assessment and reflect on their learning in order to identify where there are gaps so they can fill them in."

The system ensures that students are kept perpetually informed of their strengths and weaknesses through constant, referable communication. Residents are given feedback in the form of field notes, which come predominantly from their preceptors but can be issued by anyone involved in interaction with the resident. Field notes are available to students for analysis, which helps them assess where they need improvement.

"What tends to happen all too often is that residents are not made aware of their weaknesses until near the end of their program," said Ross. "With the CBAS format, advisors

meet with our residents every four months. If residents are not showing progress then we stop, look back and create a learning plan targeting the areas that they need to focus on."

Ross added that the TLEF grant has provided the team with the means to hire a grad student to collect data on a consistent basis.

"That really does a lot in terms of validating our work, which is really helpful," she said. "Really, it's all about improving the learning of our residents and helping them to become better doctors." ■

**"There's a worldwide movement to shift medical education from the time-based system to a competency based system."**

Shelley Ross



Shelley Ross

## Student caller hits development milestone

Angel Cousineau

Hadi Saba has a lot going on. Yet he has still found time to raise \$200,000 in pledges to support his fellow U of A students through the Student Calling Program.

A PhD student in computing science, Hadi works part-time at the Student Calling Program at the University of Alberta. The program calls tens of thousands of donors and alumni of the U of A to keep them updated, invite them to events and request donations for all sorts of programs and initiatives across campus.

When the associate director of Development Services contacted Hadi to let him know that he was about to reach a milestone never achieved before in the SCP, Hadi simply replied, "I was just doing my job." It is this level of humility, coupled with a strong sense of work that makes Hadi a powerhouse.

Last week Hadi reached the milestone in just two years, and received a letter from U of A President Indira Samarasekera congratulating him on his achievement. Sean Price, associate vice-president, Alumni Affairs, also presented Hadi with a pair of tickets for an upcoming Oilers game, which were donated by MBNA Canada



Hadi Saba mans the phones with Sean Price looking on.

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# news [shorts]

folio presents a sample of some of the research stories that recently appeared on ExpressNews, the U of A's online news source, and other campus news sources. To read more, go to [www.expressnews.ualberta.ca](http://www.expressnews.ualberta.ca).

## New facilities for Camrose after-degree program

Following a number of years with good but less-than-ideal facilities, the Faculty of Nursing now has a state-of-the-art dedicated facility in Camrose for the After Degree Program offered there.

The new facilities, which were used starting in September, include smart classrooms, a state-of-the-art high-fidelity simulation suite, a nursing skills lab equipped with medium fidelity simulation and a patient-care ready environment modeled after what students experience in a hospital facility.

According to Dean Anita Molzahn, creating a permanent dedicated space for the program in Camrose is an example of the Faculty of Nursing's commitment to being part of a community that has welcomed our students and instructors.

"Our After Degree nursing program has forged some interesting relationships that are characteristic of a rural setting. Some examples: the local Hutterite community manufactures their nursing scrubs, snow cleaning has been generously done by anonymous passers-by, and seniors in a local retirement residence have stepped up to be assessed by our nursing students in their NURS 304 course, because they believe it is the duty of these seniors to educate the younger generation."

## New nano professor earns international praise

Zubin Jacob, who joined the Department of Electrical and Computer Engineering in September, has won the Dimitris N. Chorafas Foundation award for extraordinary scientific achievement in his PhD.

While working on his PhD (initially at Princeton and then at Purdue), Jacob designed a new device called the hyper lens, which provides a new way to optically see objects at the nano scale—smaller than a billionth of a meter. Technology already existed to capture images of nano-sized objects, but the images are created by physically detecting an object's shape with a nano-scale probe, and is time consuming. Jacob designed the hyper lens, a lens that gets around the limitations of light diffraction that had prevented optical imaging of nano-scale objects.

"We have microscopes and I thought, 'Why don't we have nanoscopes?'" said Zubin, whose field of expertise is meta-materials. "Diffraction limits always prevented that, but using new materials I came up with a design for the hyper lens. It helps us to see objects that are smaller than the wave length of light."

These objects are so small that light interacts with them differently, hampering our ability to see them optically, under any degree of magnification. Zubin's design solves that problem and, in turn, solves another: being able to instantly view a nanoscale object gives researchers the ability to see biological organisms in a snapshot.

"One of the main applications of this will be in biological imaging, where you have organisms in that size range and you can get an image of them in real time."

## Researcher honoured for pioneering cancer treatments

Evangelos Michelakis, professor in the Faculty of Medicine & Dentistry has been named the Canadians for Health Research Researcher of the Month.

Michelakis, a cardiologist, drew international headlines when he discovered that a relatively non-toxic inexpensive pharmaceutical, dichloroacetate, could be used to treat some types of cancer. However, the real importance of his discovery was that it pointed toward a new way of treating cancer—Michelakis was able to alter the metabolism of tumours by targeting the mitochondria, the energy-producing units in cells.

Michelakis specializes in treating patients with pulmonary hypertension, a deadly condition caused by excessive growth of cells in the walls of arteries in the lungs, which can result in shortness of breath, heart failure and premature death. He has made other important discoveries, including another use for Viagra. In 2003, his team was the first to show that Viagra, normally used to treat erectile dysfunction, is beneficial for patients with pulmonary hypertension.

This year, Michelakis published the early results of a Phase I-II clinical trial of DCA on patients with glioblastoma (a deadly brain tumour), proving that his observations in targeting mitochondria in animal tumours can be directly applied in patients. A few months later he published definitive evidence that mitochondria can be targeted in pulmonary hypertension in a manner identical to cancer.

"It's always great to get the recognition," said Michelakis, "but it also reminds me that being a part of this prestigious list of researchers is as important to me as being a part of my own list of legends, the bright students and colleagues that surround me, making this work happen and, more importantly, make me a better scientist and a better person."

## Inventor of revolutionary wound dressing wins Salk

Robert Burrell, chair of the Department of Biomedical Engineering who revolutionized wound treatment, has been awarded the prestigious Jonas Salk Award.

Robert Burrell, who holds the Canada Research Chair in Nanostructured Biomaterials, invented Acticoat, a silver-based wound dressing in 1995 while working for Westaim Corporation's Nucryst Pharmaceuticals. The dressing is regarded as one of the most important advances in wound-care history, using nanocrystalline silver technology that speeds healing while fighting off infections.

Acticoat dressings improve the quality of life and save health-care costs for patients with chronic wounds like diabetic and arterial leg ulcers, and help prevent chronic disability and morbidity in millions of people worldwide.

Burrell says winning the award—named after the man who developed the life-saving polio vaccine in 1955—is humbling.

"Jonas Salk was an interesting guy in that he was an medical doctor who didn't practice medicine—he was one of the first doctors who went the route of research, and we are all beneficiaries of his work," said Burrell.

The award is presented annually to a Canadian scientist, physician or researcher who has made a new and outstanding contribution in science or medicine to prevent, alleviate or eliminate a physical disability. ■

# Business grads start Life in Reverse



Sarah Ligon

While his business school classmates walked across the stage at Jubilee

Auditorium last month to collect their diplomas, Shaun Brandt, '10 BCom, 24, and his friend, Cam Service, '09 BCom, 23, had already embarked on their first career move: an 8,000-kilometre journey from Alberta to Nicaragua, where they will begin living the sort of life most people only dream about for retirement.

The two Edmontonians hit the road with a trailer full of equipment and a videographer in tow to begin filming *Life in Reverse*, a documentary for the fledgling Internet television network, Third Storm, that began airing on Nov. 15. The 24-episode show will follow the duo as they drive down to San Juan del Sur, a low-key fishing village in the Nicaraguan rain forest and home to some of the best surfing in the world.

Once there, they'll begin constructing an eco-home, which will be the homebase for Honesty Clothing—the small ethical clothing line they founded while still students at the U of A—and search for a local textile manufacturer that meets their company's strict code of conduct.

They'll also do a lot of surfing, although they're complete novices. And they don't speak Spanish and have no building experience, not so much as a childhood treehouse.

No matter. The concept of the show—at the heart of Brandt and Service's world view—is the belief that there's no need to wait until retirement to move to paradise and start living

one's dreams. The pair hope to build a business they're passionate about while enjoying each day to the fullest—and they hope that the trials and tribulations they're bound to encounter along the way will keep viewers tuning in for more.



Shaun Brandt and Cam Service

It may seem like an odd career move for two successful business grads. While most of their classmates will be building up their business wardrobes and climbing the corporate ladder, Brandt and Service will be hitting the surf in board shorts, touring textile manufacturers and hammering away at their beachfront cabin. But the pair insists that they are, in fact, making excellent use of their business degrees.

"The truth is, everything that we've done to make this project work has been taken directly from what we learned in school," says Service. "How to write a proposal to advertisers or licensing music

for the show—even just the mindset of taking the idea of a trip and a surf house and turning that into a business concept. I wouldn't have been able to comprehend that without my business degree."

What started out as a small, self-financed project has grown to a half-million dollar enterprise, with companies large and small across North America interested in sponsorship. However, Brandt and Service were the first to invest money and their own sweat equity into their dream. For months they've been logging 80- and 90-hour weeks, working three jobs to get this project off the ground.

"Every dollar I make goes toward this," says Service. "It's a lot of hard work and believing in the idea."

And ultimately it was that idea that sold the network on this unlikely pair and their far-fetched dream.

But what possessed two land-locked Albertans to want to stake their life savings—and a year of their lives—on surfing, a sport with which they've had so little experience?

"We've both been involved in other board sports for a long time. We snowboard and skateboard and longboard," says Brandt. "I think that every Canadian that's been on a board wants to be on a surfboard."

"And once you've done it, it's the most addictive thing in the world," adds Service.

"If I wasn't so white and didn't burn so easily, I would be out there for 12 hours a day," says Brandt. "You can either be constantly working to get the next wave or you can just sit there and enjoy the scenery. Either way it's fun." ■

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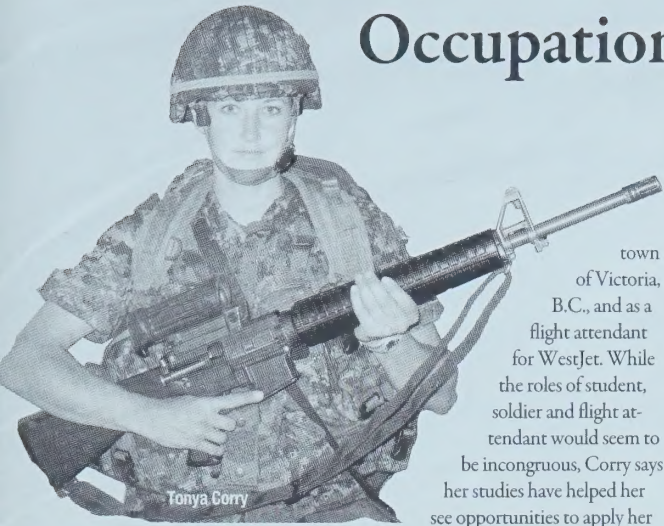
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Jamie Hanlon

By the look of things, it would seem that the Canadian Forces' "there's no life like it" recruiting slogan has stuck with Tonya Corry since her childhood.

Corry crossed the stage Nov. 18 to receive her master's degree in occupational therapy, which she obtained while working two very different jobs: as a medic with a reserve unit in her home-

# Occupational therapy master's grad soldiers on

town of Victoria, B.C., and as a flight attendant for WestJet. While the roles of student, soldier and flight attendant would seem to be incongruous, Corry says her studies have helped her see opportunities to apply her skills and knowledge more effectively in all three of those evocations.

But how—or why—does one take on such a heavy workload when faced with a demanding program like occupational therapy? According to Corry, it all comes down to making choices. And since deciding to embark on her graduate studies in the Faculty of Rehabilitation Medicine, she has made more than a few choices that were very different than the one she originally made.

A love of travel convinced Corry

to take on the airline-attendant role after her undergraduate studies were complete. She says that she had already applied to the U of A program but was convinced she would not get in the first time. When she did, she had to decide whether to give up working for WestJet or continue her studies.

"I thought, 'you only live once; you may as well enjoy it now.' So I declined my acceptance to university and flew with WestJet for a year," said Corry. "I re-applied to the university when I was able to go part time with WestJet."

Not one to let the grass grow under her feet, Corry also enlisted with 11 Field Ambulance as a means to explore a possible career in medicine. She re-applied to the U of A and was on her basic training course when she got the news from the department the second time: she was rejected.

"I joked that was the only time I cried at basic training—when I couldn't get into the program," said Corry. "I sent an email to the administrator asking what I could do to improve my application. I got an email a week later saying they had received some extra

funding so I was now accepted."

While Corry's self-described emotional rollercoaster happily ended, the mental challenge of juggling the demands of her chosen worlds was her next test. She worked with her unit when she made her way home for visits or field work and continued to book her weekend schedules with WestJet. She says both employers were extremely accommodating and very flexible with allowing her to continue her "careers" while completing her master's.

But while jetting off to various destinations may sound like fun, Corry says sometimes her studies overlapped into opportune moments of her travel gig.

"I was in St. Lucia once and I was on a group meeting because we had a project due in about a week," said Corry. "For me, it wasn't about being in St. Lucia; it was, 'I have to get this project done.'"

Don't think for a second, though, that she has slowed down since she completed her studies. In fact, her tempo has increased to four jobs now that she has completed her degree. Aside from continuing to fly with WestJet (where she is also building a

case for how the airline could strategically employ their own occupational therapist), Corry is working as an occupational therapist in both public and private practice.

She is also moving her way towards a more important role with the military. Corry, whose graduate research focused on the effectiveness of occupational therapy in treating military members with operational stress and traumatic brain injuries, is awaiting her commission to an officer's rank to become a health-care administrator, where she hopes to promote occupational therapy as a viable military trade.

"I'm promoting occupational therapy, attending conferences, using my research paper as evidence for why these interventions and why our trade is so effective," she said. "When occupational therapy comes in (as a military career), I will know the military health-care system and be an effective occupational therapist to military members."

"It's a different job, but I now have a new focus and it's a way to use my degree within the military and help enable change." ■

# talks & events

Talks & Events listings do not accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in folio and on ExpressNews at: [www.uofaweb.ualberta.ca/events/submit.cfm](http://www.uofaweb.ualberta.ca/events/submit.cfm). A more comprehensive list of events is available online at [www.events.ualberta.ca](http://www.events.ualberta.ca). Deadline: noon one week prior to publication. Entries will be edited for style and length.

## Until Jan. 14, 2011

**The John H. Meier, Jr. Governor General's Literary Award for Fiction Collection.** This exhibition presents examples of first editions of all the titles that have won Canada's prestigious Governor General's Literary Award for Fiction from its inception to the present. Noon–4:30 p.m. Rutherford Library.

## Until Dec. 17

**(sir)rogates.** "(sir)rogates" is an exhibition of new paintings by local artist, and University of Alberta professor, Julian Forrest. This playful yet poignant look at masculinity and issues that arise in migratory oil-rich centres, like Edmonton, offers viewers a chance to contemplate Alberta's continually evolving landscape. Harcourt House Gallery, 11205-112 street, 3rd floor.

## Dec. 3

**Golden Bears and Panda's Basketball** versus University of Regina Cougars, Golden Bears to follow. 6 p.m. Main Gym. For the full athletics schedule, go to <http://www.bears.ualberta.ca>.

## Dec. 4

**MACH 3 Trio Voce.** 8 p.m. Arts and Convocation Hall.

# laurels

Alberta Construction magazine has named the **Centennial Centre for Interdisciplinary Sciences** as one of the top Alberta institutional construction projects completed in 2010.

**Stan Boutin**, professor in the Department of Biological Sciences, received the William Rowan Distinguished Service Award from the Alberta Chapter of the Wildlife Society.

**Timothy Caulfield**, professor in the Faculty of Law and the School of Public Health, and research director of the Health Law Institute, has received the Till and McCulloch Award from the Stem Cell Network. The honour recognizes the year's most influential peer-reviewed article by a Canadian stem cell

researcher.

**Charlie Ashad**, professor in the Department of Renewable Resources, received the Soil Science Distinguished Service Award from the Soil Society of America.

**Gino Fallone**, professor in the Department of Psychology, received the inaugural Westbury Legacy Award from the Alberta Centre for Child, Family and Community Research for his work as Community-University Partnership research director.

## Dec. 5

**Darren Jacklin.** Darren Jacklin is a world-class professional speaker, corporate trainer, best-selling author and television celebrity. 12:30–5:30 p.m. 150 TELUS Centre. For more information, go to [www.ualberta.ca/~esa106/default.htm](http://www.ualberta.ca/~esa106/default.htm).

## Dec. 6

**Ho-Ho-Ho-liday Community Sale and Live Music for United Way.** Holiday community sale, coffee, hot chocolate and baked goods in the Atrium at Enterprise Square. Live Music by Shaun Bosch. All proceeds go to the United Way. 11:30 a.m.–3:30 p.m.

## Dec. 7

**Grant Administration and Reconciliation.** This seminar will be of interest to all researchers and personnel involved in the administration of research grants on campus. Our guest speakers will share their experience in grant administration. This workshop is open to all U of A faculty, administrators, students and staff as well as AHS staff. Please register via the link below. 9:30–11:00 a.m. Room 2-117 Clinical Sciences. <http://rsoregistration.ualberta.ca/CourseDescription.do?courseid=4623>.

**CIHR Cafe Scientifique – Planning Ahead: The Preferred Place for My**

**Final Days.** Many terminally-ill people want to stay at home in their final days, but this can be difficult to achieve. Come out for an intimate discussion with research and clinical experts on this sensitive topic. Appetizers and refreshments will be 7–9 p.m. Saskatchewan Room Faculty Club.

## Dec. 8

**Coffee Consumption and Metabolic Disease Risk – Potential Mechanisms.** The Alberta Institute for Human Nutrition presents Jane Shearer, professor in the Faculty of Kinesiology and Department of Biochemistry and Molecular Biology at the University of Calgary. Noon–1 p.m. 1-040 (Oborowsky Degner Seminar Hall) Li Ka Shing Centre for Health Research Innovation.

## Dec. 9 & 10

**Second Annual Translational Neuroscience Symposium.** Focus on of this symposium will be neurodegeneration. This year's symposium will also celebrate the grand opening of the Centre for Prion and Protein Folding Diseases at the University of Alberta. 1–6 p.m. TELUS Centre.

## Dec. 10

**Fist Call for Abstracts to the 3rd Annual Dr. Olive Yonge Teaching**

**and Learning Scholarship Day.** The Dr. Olive Yonge Teaching/Learning Scholarship Review Committee welcomes abstract submissions from educators/researchers with a focus on teaching and learning scholarship in higher education. Lister Centre. <http://www.nursing.ualberta.ca/en/TeachingLearning/OliveYongeDay.aspx>

## Dec. 12

**Silent Night.** 3 p.m. Arts and Convocation Hall.

## Dec. 13

**Fostering Reflective Capacity Through Interactive Reflective Writing.** Hedy Wald will use a combination of didactic and interactive learning to explore the concept of fostering reflective capacity through interactive reflective writing within an interdisciplinary context. 11 a.m.–noon. Room 150 TELUS Centre.

## Savage Limbo

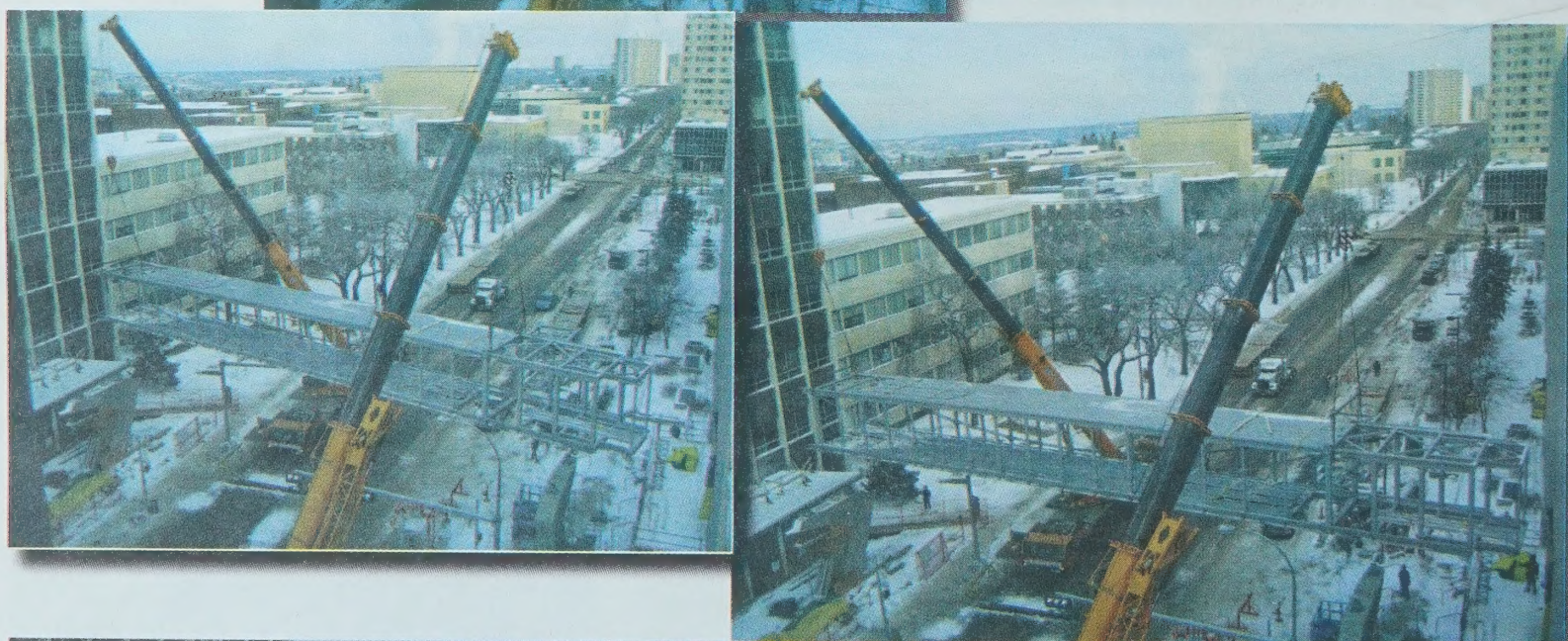


Jamie Cavanagh as Tony Aronica and Tiffany Ayalik as Linda Rotunda in the U of A Studio Theatre production of "Savage Limbo," which plays at the Timms Centre for the Arts through to Dec. 11.

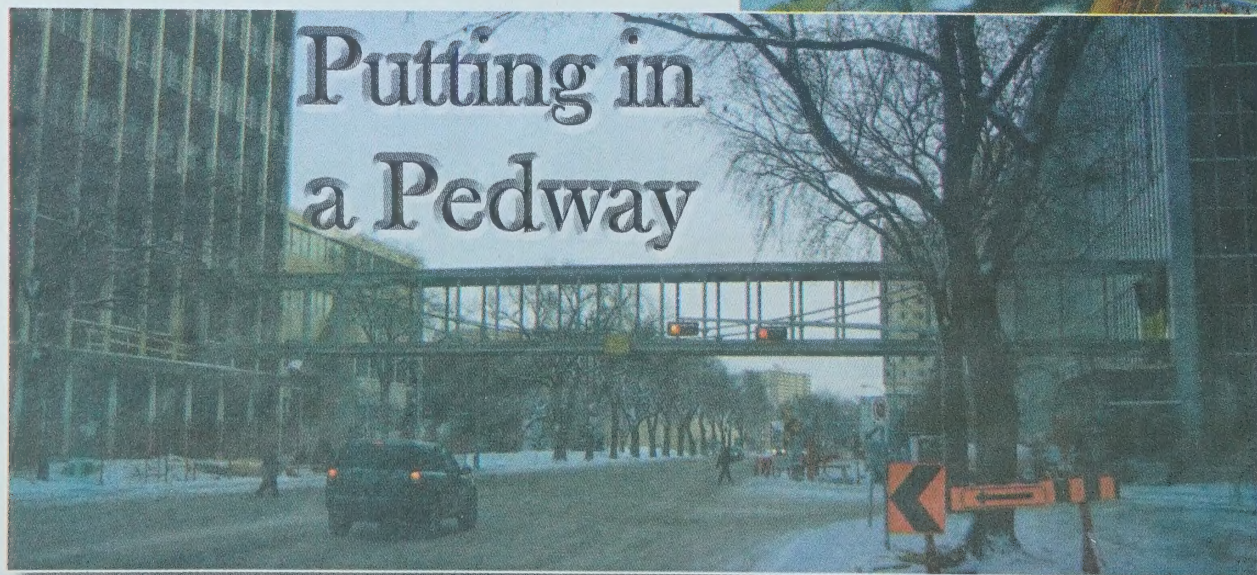




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## Putting in a Pedway



On Saturday, Nov. 20, a pedway connection between the Education South and Heritage Medical Research Centre buildings was erected. The pedway steel structure was fabricated and delivered in segments to the site where it was assembled on the ground. With one single crane lift, the 47-metre-long structure was put into place. The work was conducted by PCL, who are the prime contractors for the project. The glass windows will be installed, and all work is scheduled to be completed for March 2011. (photos supplied)